

Exhibit 198

Exhibit 134

Scientists say no credible evidence of computer fraud in the 2020 election outcome, but policymakers must work with experts to improve confidence

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We are specialists in election security, having studied the security of voting machines, voting systems, and technology used for government elections for decades.

We and other scientists have warned for many years that there are security weaknesses in voting systems and have advocated that election systems be better secured against malicious attack. As the National Academies recently concluded, “There is no realistic mechanism to fully secure vote casting and tabulation computer systems from cyber threats.” However, notwithstanding these serious concerns, we have never claimed that technical vulnerabilities have actually been exploited to alter the outcome of any US election.

Anyone asserting that a US election was “rigged” is making an *extraordinary* claim, one that must be supported by persuasive and verifiable evidence. Merely citing the existence of technical flaws does not establish that an attack occurred, much less that it altered an election outcome. It is simply speculation.

The presence of security weaknesses in election infrastructure does not by itself tell us that any election has actually been compromised. Technical, physical, and procedural safeguards complicate the task of maliciously exploiting election systems, as does monitoring of likely adversaries by law enforcement and the intelligence community. Altering an election outcome involves more than simply the existence of a technical vulnerability.

We are aware of alarming assertions being made that the 2020 election was “rigged” by exploiting technical vulnerabilities. However, in every case of which we are aware, these claims either have been unsubstantiated or are technically incoherent. To our collective knowledge, no credible evidence has been put forth that supports a conclusion that the 2020 election outcome in any state has been altered through technical compromise.

That said, it is imperative that the US continue working to bolster the security of elections against sophisticated adversaries. At a minimum, all states should employ election security practices and mechanisms recommended by experts to increase assurance in election outcomes, such as post-election risk-limiting audits.

If you are looking for a good place to start learning the facts about election security, we recommend the recent National Academies of Science, Engineering, and Medicine (NASEM) study, “Securing the Vote”, which is available for free download at <https://doi.org/10.17226/25120>.

Signed,

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